Winter 23 Appendices

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Appendix 1

Runway Scheduling Limits Winter 23

Arrivals		ī	T	T	P	T	P	T	P	ī	-	r	P	r	Γ	Γ			
Hour (UTC)	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	Average	Total
Winter 2022	38	39	37	45	45	34	43	40	41	39	42	40	42	42	38	38	17	38.8	660
Capacity change RSL1								+1			-2	+1		+1	-1				
Winter 2023	38	39	37	45	45	34	43	41	41	39	40	41	42	43	37	38	17	38.8	660

Departures																			
Hour (UTC)	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	Average	Total
Winter 2022	27	42	46	43	44	43	44	46	42	42	44	45	45	45	37	27	24	40.4	686
Capacity change RSL1	+2				-1	+1				+1	-1	+1	-2				-1		
Winter 2023	29	42	46	43	43	44	44	46	42	43	43	46	43	45	37	27	23	40.4	686

Appendix 2

Additional Runway Scheduling Constraints Winter 23

Arrivals

- 1 Within each hour, and having regard to historic rights, no more than 5 arrivals should be scheduled in each 5-minute period in the hour.
- 2 The schedule, having regard to historic rights, will be co-ordinated to a 20-minute slot constraint, offset by 10 minutes. No more than 15 arrivals should be scheduled in each 20-minute period.
- 3 Only Airlines with a historic allocation of Night Quota are allowed to schedule arrivals at 0610 or 0615.

Departures

- 1 Within each hour, and having regard to historic rights, no more than 5 departures should be scheduled in each 5-minute period in the hour.
- 2 The schedule, having regard to historic rights, will be co-ordinated to a 20-minute slot constraint, offset by 10 minutes. No more than 16 departures should be scheduled in each 20-minute period.
- 3 Each hour, and having regard to historic rights, will be coordinated to an offset rolling hour. The hour is offset by 10 minutes and rolls through the hour every 20 minutes. No more than 45 departures will be scheduled in any rolling hour between 0600 and 2255 (UTC), except between 1650-1905 (UTC) when the rolling hour capacity will be 46.

Time (UTC)	0600 - 1645	1650 - 1905	1910 - 2255
Capacity	45	46	45

Arrivals and Departures

- 1 Ad Hoc slots will be unavailable between 0430 and 0800.
- 2 Ad-Hoc slot allocation will be suspended when weather conditions deteriorate. (Exceptions, contained in ANNEX 3 of Local Rule 2, will be allowed to operate during the suspension.)

Appendix 3

Heathrow Terminal Scheduling Limits – Winter 23

Terminal	A/D	Constraint	W23 Coordination Limit	W23 Lower Limit
		Combined 1 hour	3,500	2,500
	Departures	Combined 3 hours	8,550	6,800
T2		International & CTA 1 hour	3,900	2,500
	Arrivals	International & CTA 2 hours	6,500	4,500
		Domestic 1 hour	600	-
Terminal	A/D	Constraint	W23 Coordination Limit	W23 Lower Limit
	Departures	International 1 hour	3,700	2,800
T3	Departures	International 3 hours	8,300	6,600
15	Arrivals	International 1 hour	4,650	-
	Arrivais	International 2 hours	7,100	-
Terminal	A/D	Constraint	W23 Coordination Limit	W23 Lower Limit
	Departures	International 1 hour	2,800	1,800
T4	Departures	International 3 hours	4,850	4,000
14	Arrivals	International 1 hour	2,500	-
	Arrivais	International 2 hours	4,300	-
Terminal	A/D	Constraint	W23 Coordination Limit	W23 Lower Limit
	Departures	Combined 1 hour	5,000	4,000
T5	Arrivals	International 1 hour	4,500	-
	AITIVAIS	Domestic 1 hour	1,200	-

W23 terminal limits were agreed at the Terminal & Stands Scheduling Limits (TSL) meeting. To protect the operation, Heathrow is applying a lower coordination limit (in addition to declared coordination limit) to protect firebreaks and avoid creating additional peaks; historic rights to slots will be honoured and there will be no forced moves. Departures limits will be set for T2, T3, T4, T5; arrival limits for T2. In T4 although Zone G check in desks are not in use they will be retained in the capacity declaration and instead the T180 limit lowered (to 4,850 from 6,000) to avoid increasing the evening peak.

Check-in Limits

Terminal 2

Zone	Desks	Declaration
А	32	32
В	26	26
С	12	12
D	46	46

Terminal 3

Zone	Desks	Declaration
А	33	33
В	30	30
С	26	26
D	26	26
E	26	26
F	26	26
G	28	28

Terminal 4

Zone	Desks	Declaration
А	14	14
В	5	5
С	26	26
D	16	16
E	16	16
F	26	26
G	10	10
Н	14	14

Terminal 3 Integrated Baggage System Limit

Coordination Limit	33 laterals
Upper Limit	40 laterals

Terminal 4 Baggage System Limits

Ancillary Baggage Facility (ABF)	Warning Limit: 44 MUPs	Upper Limit: 56 MUPs
Main Baggage Hall (MBH)	Warning Limit: 80 MUPs	Upper Limit: 92 MUPs
Transfer Baggage Facility (TBF)	Single Limit: 10 MUPs	

Appendix 4

Load Factors Winter 23

W23	T2	T2 CTA &	T2	T3 Intern	ational	T4 Interr	national	T5	T5 Interna	tional (&
Declared	Domestic	International	Combined					Domestic	Domestic D)eparture)
Day of	Α	Α	D	Α	D	А	D	Α	Α	D
Week										
1	86%	84%	82%	84%	84%	87%	86%	84%	84%	83%
2	82%	82%	81%	81%	85%	84%	84%	79%	80%	79%
3	80%	79%	79%	77%	84%	83%	86%	81%	79%	79%
4	79%	82%	85%	81%	87%	84%	87%	78%	82%	83%
5	81%	85%	87%	85%	89%	87%	89%	77%	86%	86%
6	78%	89%	87%	87%	88%	85%	88%	83%	86%	87%
7	86%	89%	85%	88%	87%	90%	89%	85%	87%	86%

Appendix 5

Stand Limits Winter 23 Table 5.1

Total Physical Stand Supply - for information only, this is NOT the W23 Declared Stands

Winter 23										
Apron	F	E	E (747-400)	E (777-200)	D (767-300)	D (757)	C (A321)	C (A319)	В	TOTAL
T2	12	9	0	2	0	0	14	0	0	37
T3	14	20	1	5	1	1	3	0	0	45
T 4	6	13	6	2	2	0	4	1	0	34
T5	15	15	13	0	4	0	15	1	0	63
Total exc. Cargo	47	57	20	9	7	1	36	2	0	179
CARGO	3	5	2	2	0	0	0	0	0	12
Total inc. Cargo	50	62	22	11	7	1	36	2	0	191

• MARS: main centrelines counted except MARS stands which are predominately used by narrow body aircraft & therefore declared as 2 centrelines, e.g.,

Stand 218 declared as 218L & 218R

Stand 221 declared as 221L & 221R

- MCA: allocated based on current predominate usage requirement:
 - Stands 415 420 declared as 3 x C (A321) and 1 x C (319)
 - Stands 449 452 declared as 2 x E

Table 5.2

Stand outages for construction work

Apron	F	E	E (747-400	E (777-200)	D (767-300)	D (757)	C (A321)	C (A319)	в	TOTAL
T2	0	0	0	0	0	0	0	0	0	0
Т3	-1	0	0	0	0	0	0	0	0	-1
T 4	0	0	0	0	0	0	0	0	0	0
T5	0	0	0	0	0	0	0	0	0	0
Total exc. Cargo	-1	0	0	0	0	0	0	0	0	-1
CARGO	0	0	0	0	0	0	0	0	0	0
Total inc. Cargo	-1	0	0	0	0	0	0	0	0	-1

Stand 209 (allocated to T3 for coordination purposes) is expected to close from early 2024 to accommodate planned demolition works on the north end of the Terminal 1 building.

Table 5.3

Ninter 23 Stand Downgrades for Projects or Ops. Resilience											
Apron	F	E	E (747-400)	E (777-200)	D (767-300)	D (757)	C (A321)	C (A319)	в	TOTAL	
T2	-3	3	0	0	0	0	0	0	0	0	
Т3	-7	4	3	0	0	0	0	0	0	0	
T4	-2	2	0	0	0	0	0	0	0	0	
T5	-3	2	0	0	0	0	0	0	0	-1	
Total exc. Cargo	-15	11	3	0	0	0	0	0	0	-1	
CARGO	-1	1	0	0	0	0	0	0	0	0	
Total inc. Cargo	-16	12	3	0	0	0	0	0	0	-1	

Stand downgrades for project work and/or operational resilience

Remote Code F stands are downgraded to Code E3 to prevent A380 remotes

- T2: Stands 254, 255, 258 Code F remotes restricted to Code E3
- T3: Stands 210, 212, 213 Code F remotes restricted to E3 3 * E3 pier served stands restricted to E2 (747-400) Stands 357, 594, 595, 596 Code F remotes restricted to Code E3
- T4: Stands 453 and 454 Code F remotes restricted to Code E3
- T5: Stands 558, 575, 576 Code F remotes restricted to Code E3 1 * Code E stand removed to accommodate jetty replacement work impacting one stand at a time during W23
- **Cargo:** Stand 608 restricted (code F to code E3)

Table 5.4

Apron	F	E	E (747-400)	E (777-200)	D (767-300)	D (757)	C (A321)	C (A319)	в	TOTAL
T2	-1	-1	0	0	0	0	-2	0	0	-4
Т3	-1	-2	-1	0	0	0	0	0	0	-4
T 4	-1	-1	0	-1	0	0	-1	0	0	-4
T5	-1	-2	0	0	0	0	-1	0	0	-4
Total exc. Cargo	-4	-6	-1	-1	0	0	-4	0	0	-16
CARGO	0	-5	0	-2	0	0	0	0	0	-7
Total inc. Cargo	-4	-11	-1	-3	0	0	-4	0	0	-23

Additional stand outages due to operational issues e.g., maintenance, stand cleaning, off slot performance, etc.

Additional stand outage declaration maintains a similar level of contingency to the W22/S23 declarations:

- 1 Pier Served Code F stand removed in each terminal
- Contingency stands removed for operational issues
- **T4:** Stand 453 removed from T4 declaration for T3 south-side towing
- Cargo: Requirement as declared for W22/S23. Stands 601-606 removed due to no fuel, reverse parking or GA use. Stand 616 for resilience.

Table 5.5

S23 Total Stands Declared for Schedule Coordination

Vinter 23	-									
Apron	F	E	E (747-400)	E (777-200)	D (767-300)	D (757)	C (A321)	C (A319)	В	TOTAL
T2	8	11	0	2	0	0	12	0	0	33
Т3	5	22	3	5	1	1	3	0	0	40
T4	3	14	6	1	2	0	3	1	0	30
T5	11	15	13	0	4	0	14	1	0	58
Total exc. Cargo	27	62	22	8	7	1	32	2	0	161
CARGO	2	1	2	0	0	0	0	0	0	5
Total inc. Cargo	29	63	24	8	7	1	32	2	0	166

Note: GA capacity is declared separately (see Appendix 6)

Appendix 6

Additional Constraints and Explanatory Notes

W23 Runway Scheduling Limits

The RSL Working Group has agreed to re-consider any flex requests that were considered but not accepted at the first RSL meeting, prior to the circulation of the SAL (Schedule Airline Listing) in late May and again after the IATA conference in late June 2023. These wish lists would all have been received by ACL before the first RSL meeting.

New or Retimed Slots After 22:40 (local)

To minimise the unplanned use of scarce night allocation movements due to delayed operations, no new or retimed services shall be allocated slots later than 22:40 (local) without a proportionate allocation of night quota - if such quota is available for allocation. If no such quota is available, relative to the forecast use for the airline, then no slots shall be allocated.

ATM Cap

A cap on the annual number of Air Transport Movements (ATMs) at Heathrow of 480,000 was introduced as a planning condition for the development of T5. In order not to exceed this level, a limit on the number of slots that may be allocated for air transport movements during the Winter 23 season, is set at 9,218 per week.

Additionally, after the slot hand back deadline in, the total seasonal number of air transport movements allocated should not exceed 195,343.

Night Flight Restriction

Aircraft of Quota Count 4 (QC4) will not be scheduled to operate between 23:30 and 06:00 (local) i.e., in the night quota period.

(This applies to Scheduled times only and does not apply to flights which have been delayed into the night period.)

Voluntary Agreement on Night Flights

The informal voluntary agreement between Heathrow and Heathrow airlines regarding night flights is:

• early morning arrivals will not land before 04:30 (local).

(This does not apply to arrivals delayed from the day before. However, if they have been subject to such severe delays that a further delay to ensure they arrive after 04:30 would make little difference, then the Duty Manager Airside may decide to refuse permission for an arrival before 04:30.)

• Cargo flights will not be scheduled to operate between 23:30 and 06:00 (local).

(This applies to Scheduled times only and does not apply to flights which have been delayed into the night period.)

Terminal Declarations

As throughput increases, it becomes increasingly difficult to encapsulate the complicated nature of each operational/facility constraint within a simple declared capacity limit for each terminal. We appreciate your continued cooperation in assessing the full impact of scheduling changes, notably new entrant airlines and significant changes from existing carriers, including slot

exchanges.

W23 terminal limits were agreed following consultation at the Terminal and Stands Scheduling Limits (TSL) Group. To protect the operation in W23, Heathrow is applying a lower coordination limit (in addition to the declared coordination limit). The aim is to protect firebreaks and avoid additional peaks being created; historic rights to slots will be honoured and there will be no forced moves. Departures limits will be set for T2, T3, T4, T5; arrival limits for T2.

Heathrow will continue to declare limits for the T3 and T4 Baggage Systems.

Heathrow will continue to declare limits for check-in in T2, T3 and T4.

In T4 although Zone G check in desks are not in use, they will be retained in the capacity declaration and instead the T180 limit lowered (from 6,000 to 4,850) to avoid increasing the evening peak.

A380 Reclaim Belts

Heathrow has several A380 flights operating at the airport. Although there is variation in the seat capacity and transfer volumes of the A380 flights, in general a larger reclaim belt is required for an A380 operation.

With agreement at the TSL Group, Heathrow declares a limit on the number of A380 flights arriving within 60 minutes in T2, T3 and T4.

Based upon Heathrow's assessments as to what is suitable for an A380 operation, the following arrivals reclaim capacity for A380 operations, in a rolling hour is declared:

Terminal	Reclaim Belts declared suitable for A380 operations
T2	6
Т3	3
T4	3

Any breaches of this limit should be referred to Heathrow Airport to assess the individual flight to take account of seat capacity and transfer volumes.

Transit Flights

Transit flights require all passengers to be processed through transfer security unless held in transit gate lounges. Due to the resulting peak passenger flows this has a disproportional impact on transfer security capacity. It is, therefore, important to separate transit flights to enable them to use the limited transit gate facilities or to limit the impact on transfer security.

Therefore, only one transit flight should be scheduled in each terminal within any 90-minute period. This limit is to be enforced for new transit flights.

Stands

Stand capacity is a critical constraint at Heathrow. Modelled stand demand versus available supply will continue to constitute a formal co-ordination parameter for each apron for Winter 23. Stand supply needs to be assessed at terminal level on all campuses. Where any breaches of the terminal stand declarations occur, Heathrow request that ACL either seek airline scheduling adjustments to resolve any overages, or refer the overage to the airport for assessment, to determine if a solution can be found within the constraints of the apron concerned.

As agreed at the TSL meeting of April 2023 remote stands 209, 210, 211, 212 and 213 will be allocated to T3 for coordination purposes (but with ability to flex on a tactical basis for T2 use).

In addition, remote stands 590, 591 and 592 will be allocated to T5 for coordination purposes (but with ability to flex on a tactical basis for T3 use).

Modelling of capacity at Heathrow has shown that to ensure aircraft flow is maintained effectively it will be necessary to use other terminals' stands for aircraft from T3. This will increase the number of towing movements which in turn may cause congestion on associated taxiways. In mitigation, we must ensure as part of the co-ordination process that the likelihood of this is minimised, and not exacerbated, by changes to slot allocations or timing.

We ask you to be mindful of the need to minimise carriers' ground time in the peak period and give this a high priority in the allocation of available runway slots.

Aircraft Parking at Heathrow Airport Outside Scheduled Turnaround Periods

In recent years it has become apparent that several away based carriers have elected to cancel flights during planned holiday periods and park their aircraft at Heathrow outside their scheduled turnaround periods. This practice, in conjunction with the ongoing programme of construction works limiting stand capacity, causes congestion at the airport and has negative impact on airport operations over an extended period.

Away based carriers should not park aircraft at Heathrow Airport outside scheduled turnaround periods, except with prior arrangement. (See also General Aviation below.)

New / Unproven Aircraft Types

To avoid potential operational issues, we request that ACL refers to Heathrow for individual review any applications for aircraft to operate in any terminal / facility which they have not operated previously; examples of which are:

- Boeing 777-X
- Boeing 747-8 Passenger and Freight

Heathrow Airport will provide a list of aircraft at terminal level for ACL reference.

General Aviation (GA) Stand Capacity

To ensure GA stand demand does not exceed supply, a separate stand capacity limit for GA is required.

Declarations will make a distinction between GA stands capable of servicing live movements and stands capable of parking tows only. Assessments carried out should therefore be able to distinguish between stand demand that requires live stands and demand that can be decanted to parking only stands.

5 stands are required for GA parking and 2 for GA live movements

- GA parking = 3 x narrow body and 2 x wide body
- GA live = 2 x Code C or 1 x Code E3

Classification: Public Classification: Public

Winter 23 – General Aviation										
	F	E3	E2 (747	E (777-	D (767 –	D (757)	С	С	Total	
			-400)	200)	300)		(A321)	(A319)		
Live*		1					2		2x code C	
									or	
									1x code E3	
Parking Only		2					3		5	

*Stand 457 (L&R) will be used for live GA movements, can either be used by 2 * Code C A321 or 1* Code E3. For red carpet movements Stand 458 (E3) can be used. Live aircraft not using a red carpet, will probably arrive / depart from Stand 456 or another 450 stand

GA stand declarations only impact cargo stand capacity i.e., cargo is reduced by 3 narrow body stands. Other stands declared as GA were already previously excluded from capacity declarations.

Peak periods require the following restrictions to GA Parking (only applicable for Winter seasons):

- Thanksgiving: no GA Parking (live declaration unaffected) from 2 days before to 2 days after
- Christmas: no GA Parking (live declaration unaffected) 21st 27th December inclusive
- New Year: no GA Parking (live declaration unaffected) 29th December 2nd January inclusive.